



HDb2840i



H D b 2 8 4 0 i is an H D video encoder/QAM/DVB-T/DVB-C modulator with 4 HDMI inputs up to 1080p/1080i with embedded digital audio. MPEG-2 or H.264 QAM/DVB-T/DVB-C RF and UDP IP Stream output. Rack ears and power supply included. Cables sold separately

TECHNICAL SPECIFICATIONS

General	Power 12V/5A, Power Use:36W max Compliance FCC Part 15 Subpart B (Class A), EN/IEC 62368-1, CE, RCM Mounting Rack ears shipped attached, 1RU high Cooling Four internal cooling fans, Side inlet, Side exhaust Dimensions: (Not including brackets) 1.73 in. (H) x 12.5 in. (W) x 9.50 in. (D) (44 mm (H) x 317 mm (W) x 241 mm (D)) Carton Dimensions (individual) 4.1 in. (H) x 18.5 in. (W) x 12.2 in. (D) 104 mm (H) x 470 mm (W) x 311 mm (D) Temperature/Humidity Operating +32°F to +113°F (0°C to +45°C) / 10% to 80%, non-condensing Enclosure Type Metal Shipping Weight 7.8 lbs. (3.55 kg) Unit Weight 5.3 lbs. (2.40 kg) Warranty 3 Years
Input	HDMI x4 Resolutions Supported:1920 x 1080 @60p 1920 x 1080 @60i, 1920 x 1080 @50p 1920 x 1080 @50i, 1920 x 1080 @30p, 1920 x 1080 @25p, 1920 x 1080 @24p 1280 x 720 @60p, 1280 x 720 @50p
Video Encoder	Encoder Video Profile MPEG2 or H.264 Average Encoding Data Rate 18 Mbps per channel (MPEG2) Encoder Audio Profile MPEG 1 Layer 2, AAC, AC3 GOP Size 16 Traffic Shaping Variable Bit Rate Audio Sample Rate 32 / 44.1 / 48 kHz Color Profile 4:2:0 Video, Audio PID Programmable starting value Video Encoding Data Rates Variable MPEG2 8 – 20 Mbps per channel H.264 5 – 20 Mbps per channel Program Information Programmable program name, EIT
Modulator/Upverter	QAM Cable Standard HRC, IRC or STD

DVB-T Frequency Range 470–862 MHz (UHF), 7/8 MHz channel bandwidths

Output Power +45 dBmV typical

QAM Frequency Range Single, frequency agile QAM RF CATV channels 2–135•
2kHz resolution• ± 30 ppm accuracy• ± 35 ppm stability

DVB-C Frequency Range 470–862 MHz, 8 MHz channel bandwidths

Output Level Adjust 25 – 45 dBmV in 0.5 dB steps (Adjustment is for groups of 4 signals)

Modulation Types QAM 64/256 (ITU–T J83 Annex B) DVB–T and DVB–C also supported. (Selectable)

MER 34– 36 dB typical, ≥ 33 dB minimum

I/Q Amplitude Imbalance < 1% typical

IP Streaming

UDP

MPEG2 or H.264 (Must be same as RF modulation selection)

Audio MPEG1–L2, AAC, AC3

Simple Setup

Network Interface 10/100 Mbps Ethernet via RJ45 connection. Set IP via DHCP or static (Default 192.168.1.30 / 24). Browser–based interface for quick and easy configuration. Easy firmware updates. All settings are persistent

Product Dimensions 31.80cm x 24.00cm x 4.35cm (12.52" x 9.45" x 1.71") W, D, H

Product Weight 2.5kg (5.5lbs) approx

Shipping Dimensions 30.70cm x 46.10cm x 10.20cm (12.09" x 18.15" x 4.02") W, D, H

Shipping Weight 3.7kg (8.0lbs) approx

